Models

HP 802.11 Outdoor Bridge and Access Point	JD899A

Key features

- 802.11a (5 GHz) & 802.11b/g (2.4 GHz) frequencies
- Up to 64 simultaneous users per AP radio/128 total
- Includes embedded 17 dBi 5 GHz antenna
- WPA/2, AES, TKIP, 802.1X, WEP encryption
- WMM QoS simultaneous support/voice, video, data

Product overview

The 802.11a and 802.11b/g integrated HP 802.11 Outdoor Bridge and Access Point (AP) provides flexible, cost-effective 802.11a and 802.11g Wi-Fi connections and bridged links across building complexes, enterprise campuses, and metropolitan areas. Wireless outdoor bridges can connect intra-building LANs across up to 10 miles. This bridge and AP combines the functions of a bridge and a full-featured wireless AP in one durable weatherproof unit---offering point-to-point or point-to-multipoint bridge functionality while simultaneously using another band for AP operation---and it features connectivity for mobile users. The AP, repeater, or bridge functionality can be independently configured on both radios, making the product extremely flexible for a variety of applications. The bridge function supports data rates up to 108 Mbps between buildings or to offsite locations. The AP function provides connectivity for as many as 128 users.

Features and benefits

Connectivity

- Auto-MDIX: automatically adjusts for straight-through or crossover cables on all 10/100 ports

Mobility

- Virtual service communities (VSCs):
  - Up to 16 SSIDs, each with unique MAC address, configurable SSID broadcasts
  - Individual security and QoS profiles per VSC
  - Configurable DTIM and minimum data rate per VSC
  - Each VSC mapped to separate IEEE 802.1Q/A and VLANs
  - Security filter
  - IP filter
- AP client access control functions:
  - IEEE 802.1X authentication using EAP-SIM, EAP-FAST, EAP-TLS, EAP-TTLS, and PEAP
  - MAC address authentication using local or RADIUS access lists
  - RADIUS AAA using EAP-MD5, PAP, CHAP, and MS-CHAPv2
  - RADIUS Client (RFC 2865 and 2866) with location-aware support
  - Layer 2 wireless client isolation

Technical features

- IEEE 802.11a/b/g standards compliance: compatibility with the IEEE 802.11a/b/g standard provides interoperability
- Radio technology: 802.11a and 802.11g standards enable wireless connectivity to 802.11a/b/g/n clients at speeds up to 54 Mb/s

Overview

- **Rugged, weatherproof outdoor bridge**: is ideal for cross-campus or metropolitan-area links at distances up to 15.5 kilometers or 9.6 miles
- **Functionality**: provides point-to-point or point-to-multipoint bridge functionality while simultaneously using another band for access point operation
- **Wi-Fi MultiMedia** (WMM) **QoS**: enables simultaneous support of voice, video, and data
- **Built durable and rugged, with internal thermostat and heater, steel mounting plates, and lightning protection on all antenna ports**:
  - Weatherproof unit that can be installed outdoors in temperatures ranging from -40C to +65C
  - Embedded 17 dBi 5 GHz antenna, with optional external antennas

Warranty and support

- **1-year warranty**: with advance replacement and 30-calendar-day delivery (available in most countries)
- **Electronic and telephone support**: limited electronic and telephone support is available from HP; refer to: www.hp.com/networking/warranty for details on the support provided and the period during which support is available
- **Software releases**: refer to: www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)

HP 802.11 Outdoor Bridge and Access Point (JD899A)

Ports	1 RJ-45 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Media Type: Auto-MDIX; Duplex: half or full	
AP characteristics	Radios	Dual (a/b/g)
	Radio operation modes	Client access, Local mesh
	AP operation modes	Autonomous
	Wi-Fi Alliance Certification*	a/b/g Wi-Fi Certified
	* HP access points and access devices are Wi-Fi Certified, providing our customers with the assurance that these products have met and passed the rigorous interoperability testing preformed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information.	
Physical characteristics	Dimensions	7.6(d) x 7.4(w) x 2.8(h) in. (19.3 x 18.8 x 7.11 cm)
	Weight	3.4 lb. (1.54 kg)
	Full configuration weight	11.6 lb. (5.26 kg)
	Enclosure	Outdoor
Mounting	Outdoor building-to-building bridge and AP; embedded 17 dBi 5 GHz sector antenna; PoE power injector; wall/pole mounting brackets; grounding wire	
Environment	Operating temperature	-40°F to 149°F (-40°C to 65°C)
	Operating relative humidity	5% to 95%, non-condensing
	Non-operating/Storage temperature	-67°F to 176°F (-55°C to 80°C)
	Non-operating/Storage relative humidity	5% to 95%, non-condensing
Wireless interface	Microsoft® Internet Explorer 5.5 or higher; Netscape Navigator 6.0 or higher	
Electrical characteristics	Maximum power rating	28 W
	Antenna Connector	(3) N-Type Dual Band
	Antenna	Dual antenna diversity
	Number of internal antennas	1
	Number of external antennas	1
	Notes	One external antenna is required with 2 optional antennas
Frequency band and Operating channels	FCC (US & Canada)	2.4 - 2.483 GHz (11 channels) 5.725 - 5.825 GHz (4 channels)
	Rest of World (Actual channels designated by selecting country in UI)	
Radio	EN 300 328	
Safety	CSA 22.2 No. 60950 3rd edition; UL 2043; IEC 60950; EN 300 328; NOM-019-SCFI; EN 60950: 2000, ZB and ZC Deviations; UL60950 3rd ed	
Emissions	CFR 47 FCC Part 15.247, 15.205, 15.207, 15.209; EN 300 328; FCC Bulletin OET 65	
RF Exposure	RSS-102; EN 300-328	
Notes	Optional cables:	

- JD912A HP X270 Low Loss N to N 6ft Antenna Cable
- JD913A HP Ultra Low Loss N to N 20ft Antenna Cable
- JD914A HP Ultra Low Loss N to N 20ft Antenna Cable

Optional antennas:

- JD907A HP 6/8dBi DualBand Omni Antenna
- JD909A HP 18/20dBi Dual Band Panel Antenna
- JD911A HP 8/10dBi Dual Band Patch Antenna

Outdoor kits:

- JE470A HP Outdoor Building-to-Building Bridge and Access Point with Omni Antenna
- JE471A HP Outdoor Building-to-Building Bridge and Access Point with Panel Antenna

Services

3-year, parts only, global next-day advance exchange (UW947E)
3-year, 4-hour onsite, 13x5 coverage for hardware (UW948E)
3-year, 4-hour onsite, 24x7 coverage for hardware (UW951E)
3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW954E)
3-year, 24x7 SW phone support, software updates (UW957E)
4-year, 4-hour onsite, 13x5 coverage for hardware (UW949E)
4-year, 4-hour onsite, 24x7 coverage for hardware (UW952E)
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW955E)
4-year, 24x7 SW phone support, software updates (UW958E)
5-year, 4-hour onsite, 13x5 coverage for hardware (UW950E)
5-year, 4-hour onsite, 24x7 coverage for hardware (UW953E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW956E)
5-year, 24x7 SW phone support, software updates (UW959E)
3 Yr 6 hr Call-to-Repair Onsite (UW960E)
4 Yr 6 hr Call-to-Repair Onsite (UW961E)
5 Yr 6 hr Call-to-Repair Onsite (UW962E)

Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Radio characteristics: 802.11a or 802.11b/g

Modulation: Direct Sequence Spread Spectrum

Standards and protocols

General protocols
IEEE 802.11a/b/g Wireless Protocol
IEEE 802.11i Wireless Security
IEEE 802.3 Type 10BASE-T
IEEE 802.3u 100BASE-X

Mobility
IEEE 802.11a High Speed Physical Layer in the 5 GHz Band
IEEE 802.11b Higher-Speed Physical Layer Extension in the 2.4 GHz Band
IEEE 802.11g Further Higher Data Rate Extension in the 2.4 GHz Band
IEEE 802.11i Medium Access Control (MAC) Security Enhancements

Accessories

HP 802.11 Outdoor Bridge and Access Point accessories	Cables	
	HP X270 Ultra Low Loss N-to-N 1.8m (6ft) Antenna Cable	JD912A
	HP X270 Ultra Low Loss N-to-N 61m (20ft) Antenna Cable	JD913A
	HP Ultra Low Loss N 6.1m (50ft) Antenna Cable	JD914A
	Wireless Antenna	
	HP 6/8dBi DualBand Omni Antenna	JD907A
	HP 18/20dBi Dual Band Patch Antenna	JD909A
	HP 8/10dBi Dual Band Patch Antenna	JD911A

To learn more, visit: www.hp.com/networking

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